

09/857698  
531 Rec'd PCT. 08 JUN 2001

WO 00/35028

PCT/GB99/04050

16

## CLAIMS

1. A light-emissive device comprising:  
a light-emissive region;  
a first electrode located on a viewing side of the light-emissive region for injecting charge carriers of a first type; and  
a second electrode located on a non-viewing side of the light-emissive region for injecting charge carriers of a second type;  
and wherein there is a reflectivity-influencing structure located on the non-viewing side of the light-emissive region and including a light absorbent layer comprising graphite and/or a fluoride or oxide of a low work function metal.
2. A light-emissive device, as claimed in claim 1, wherein the first electrode is at least partially light-transmissive.
3. A light-emissive device as claimed in claim 1 [or 2] wherein the reflectivity influencing structure is located on the opposite side of the second electrode from the light-emissive region.
4. A light-emissive device as claimed in claim 3, wherein the second electrode is at least partially light-transmissive.
5. A light-emissive device as claimed in claim 3 [or 4] wherein the thickness of the second electrode is less than 30nm.
6. A light-emissive device as claimed in [any of claims 3 to 5] wherein the reflectivity-influencing structure is adjacent the second electrode.
7. A light-emissive device as claimed in claim 1 [or 2] wherein the second electrode provides the reflectivity-influencing structure.

claim 3

WO 00/35028

PCT/GB99/04050

17

8. A light-emissive device as claimed in claim 7, wherein the second electrode comprises a fluoride or oxide of a low work function metal.

9. A light-emissive device as claimed in claim 8, wherein the second electrode comprises aluminium.

10. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the reflectivity-influencing structure is effective to absorb light emitted from the light-emissive region that reaches it through the second electrode and/or incident light.

11. A light-emissive device as claimed in claim 1 <sup>1</sup>any of claims 7 to 10 as dependant directly or indirectly on claim 6, wherein the presence of the reflectivity-influencing structure adjacent the second electrode renders the second electrode substantially non-reflective to light emitted from the light-emissive region and/or incident light.

12. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the second electrode comprises an electrically conductive material.

13. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the light-emissive layer comprises an organic light-emissive material.

14. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the light-emissive layer comprises a polymer light-emissive material.

15. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the light-emissive layer comprises a conjugated polymer material.

16. A light-emissive device as claimed in any preceding <sup>1</sup>claim, wherein the reflection-influencing layer is electrically conductive.

17. A light-emissive device comprising:

00657698-11001

WO 00/35028

PCT/GB99/04050

18

a light-emissive region;

a first electrode located on a viewing side of the light-emissive region for injecting charge carriers of a first type; and

a second electrode located on a non-viewing side of the light-emissive region for injecting charge carriers of a second type;

and wherein there is a reflectivity-influencing structure located on the non-viewing side of the light-emissive region and including a light-reflective layer and a light-transmissive spacing layer between the second electrode and the light-reflective layer, the thickness of the spacing layer being such as to space a reflective plane of the light-reflective layer by approximately half the wavelength of the optical mode of the device from at least part of the light-emissive region.

18. A light-emissive device as claimed in claim 17, wherein the said part of the light-emissive region is a part at which, when the device is in operation, there is significant electron/hole recombination.

19. A light-emissive device as claimed in claim 18, wherein the said part of the light-emissive region is a principal region for electron/hole recombination.

20. A light-emissive device as claimed in claim 17 [any of claims 17 to 19] wherein the said plane of the light-reflective layer is the major surface of the light-reflective layer that is closer to the light-emissive region.

21. A light-emissive device as claimed in claim 17 [any of claims 17 to 20], wherein the second electrode comprises an electrically conductive material.

22. A light-emissive device as claimed in claim 17 [any of claims 17 to 21], wherein the light-emissive layer comprises an organic light-emissive material.

23. A light-emissive device as claimed in claim 17 [any of claims 17 to 22], wherein the light-emissive layer comprises a polymer light-emissive material.

WO 00/35028

PCT/GB99/04050

19

claim 17

24. A light-emissive device as claimed in [any of claims 17 to 23] wherein the light-emissive layer comprises a conjugated polymer material.

claim 17

25. A light-emissive device as claimed in [any of claims 17 to 24] wherein the reflection-influencing layer is electrically conductive.

26. A light-emissive device comprising:

a light-emissive region;

a first electrode located on a viewing side of the light-emissive region for injecting charge carriers of a first type; and

a second electrode located on a non-viewing side of the light-emissive region for injecting charge carriers of a second type;

and a contrast enhancing structure located on the non-viewing side of the light-emissive region and including a reflective structure having different reflectivity for different wavelengths of incident light, and having a reflectivity peak encompassing an emission wavelength of the light-emissive region.

27. A light-emissive device as claimed in claim 26, wherein the reflective structure is a distributed Bragg reflector.

28. A light-emissive device as claimed in claim 26 [or 27], wherein the second electrode comprises a layer located on the non-viewing side of the reflective structure and a plurality of through paths passing through the reflective structure for electrical conduction between the said layer of the second electrode and the light-emissive region.

29. A light-emissive device as claimed in claim 28, wherein the through paths occupy less than 15% of the emissive area of the device.

claim 26

30. A light-emissive device as claimed in [any of claims 26 to 29] wherein the cathode comprises a transparent layer located between the reflective structure and the light-emissive region.

06/06 '01 16:15 FAX 020 7831 8040

WO 00/35028

PCT/GB99/04050

20

31. A light-emissive device as claimed in claim 30 [as dependant on claim 28 or 29], wherein the transparent layer is in contact with the through paths.

32. A light-emissive device as claimed in [any of claims 26 to 31] claim 26 wherein the second electrode comprises an electrically conductive material.

33. A light-emissive device as claimed in [any of claims 26 to 32] claim 26 wherein the light-emissive layer comprises an organic light-emissive material.

34. A light-emissive device as claimed in [any of claims 26 to 33] claim 26 wherein the light-emissive layer comprises a polymer light-emissive material.

35. A light-emissive device as claimed in [any of claims 26 to 34] claim 26 wherein the light-emissive layer comprises a conjugated polymer material.

36. A light-emissive device substantially as herein described with reference to figures 2 to 8 of the accompanying drawings.

deleted